



# Country Presentation FMD Situation and its Prevention & Control

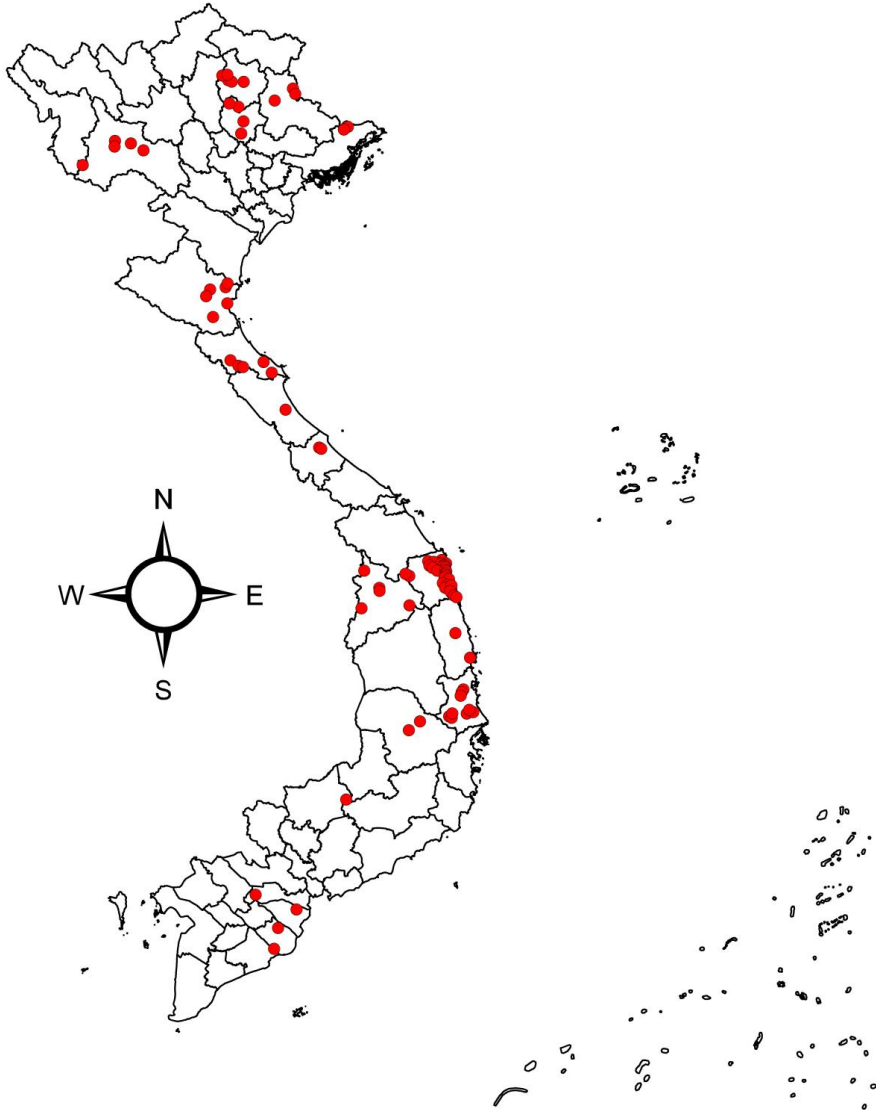
**Country name: Viet Nam**

Name of Presenter: **Phan Quang Minh  
& Nguyen Thanh Phương**

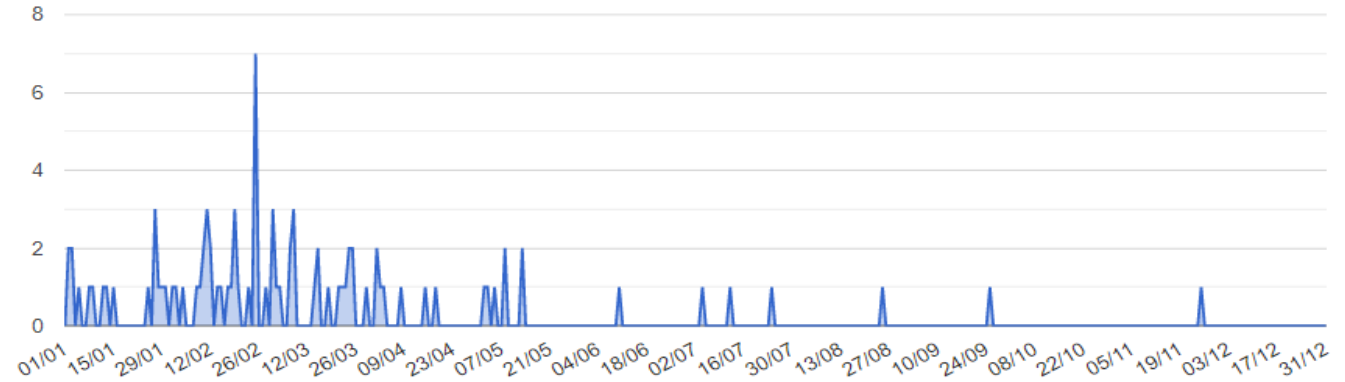
Position: Head, Epidemiology Division

Affiliation: Department of Animal Health

# FMD situation in 2021



Temporal distribution of FMD outbreaks in 2021



<b>No. Outbreaks</b>	<b>89</b> <i>(type O detect only)</i>
<b>No. Province</b>	<b>17</b>
<b>Species affected (total animal :3407)</b>	<b>- Cattle: 2804 - Buffalo: 376 - Pig: 182 - Goat: 45</b>

# FMDV & vaccine matching 2020-2021

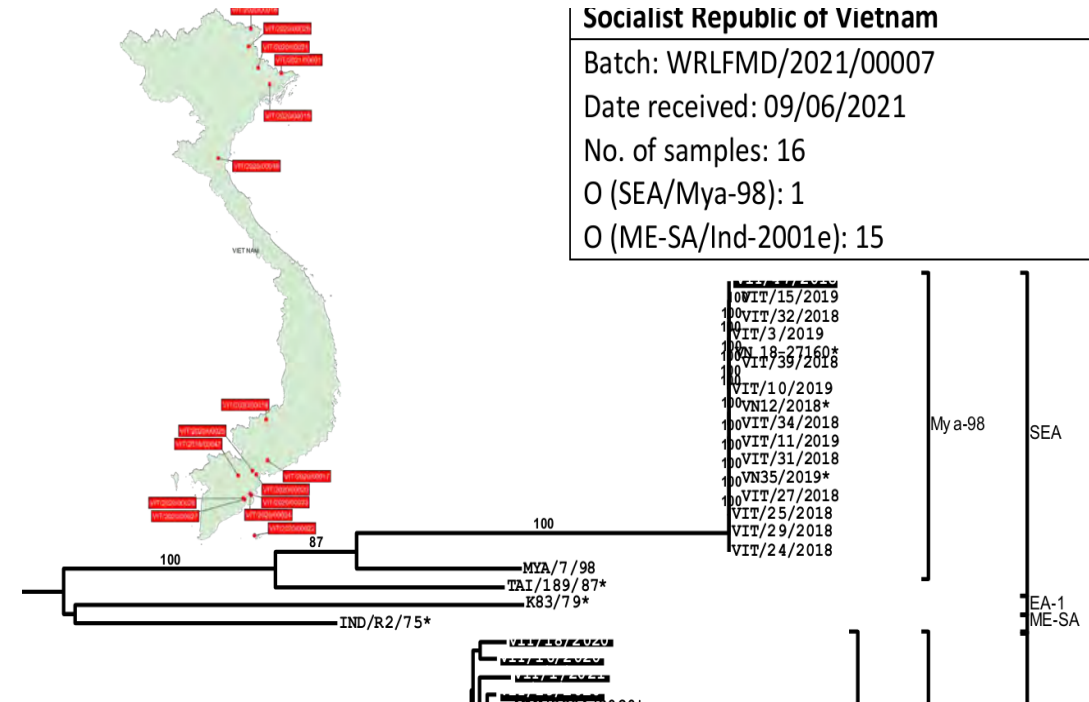
Isolate	Serotype O		O 3039		O Manisa		O/TUR/5/09		O <sub>1</sub> Campos	
	Topotype	Lineage	Boehringer Ingelheim		Boehringer Ingelheim		MSD		Biogénesis Bagó	
			r1	Titre	r1	Titre	r1	Titre	r1	Titre
VIT/47/2018	SEA	Mya-98	0.34	1.48	0.14	1.67	0.3	1.78	0.49	2.37
VIT/21/2020	ME-SA	Ind-2001	0.59	1.79	0.30	2.06	0.54	2.12	0.38	2.42
VIT/24/2020	ME-SA	Ind-2001	0.39	1.61	0.20	1.89	0.42	2.01	0.37	2.41
VIT/1/2021	ME-SA	Ind-2001	0.38	1.53	0.29	0.98	0.72	2.16	0.45	2.33

## Vaccine matching:

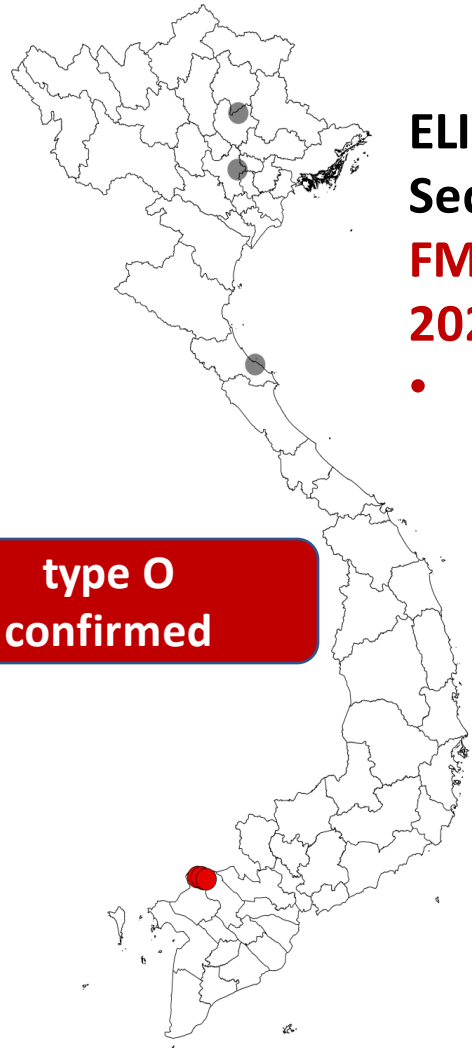
- Strong antigenic relationship between field isolates and vaccine strains (O3039, O1manisa, O/Tur/5/09; Ocampos, O135).
- Post-vaccination: High antibody response tested by VNT, ELISA in laboratory.
- Vaccine(s) and FMD field viruses are homogenous and the vaccine(s) with 6PD50 can provide good protection.

## ELISA typing testing & Sequencing confirmed FMDV type O (collect 2021)

- ME-SA/Ind-2001e



# FMD situation in 2022



ELISA typing testing & Sequencing confirmed FMDV type O (collect 2022)

- ME-SA/Ind-2001e

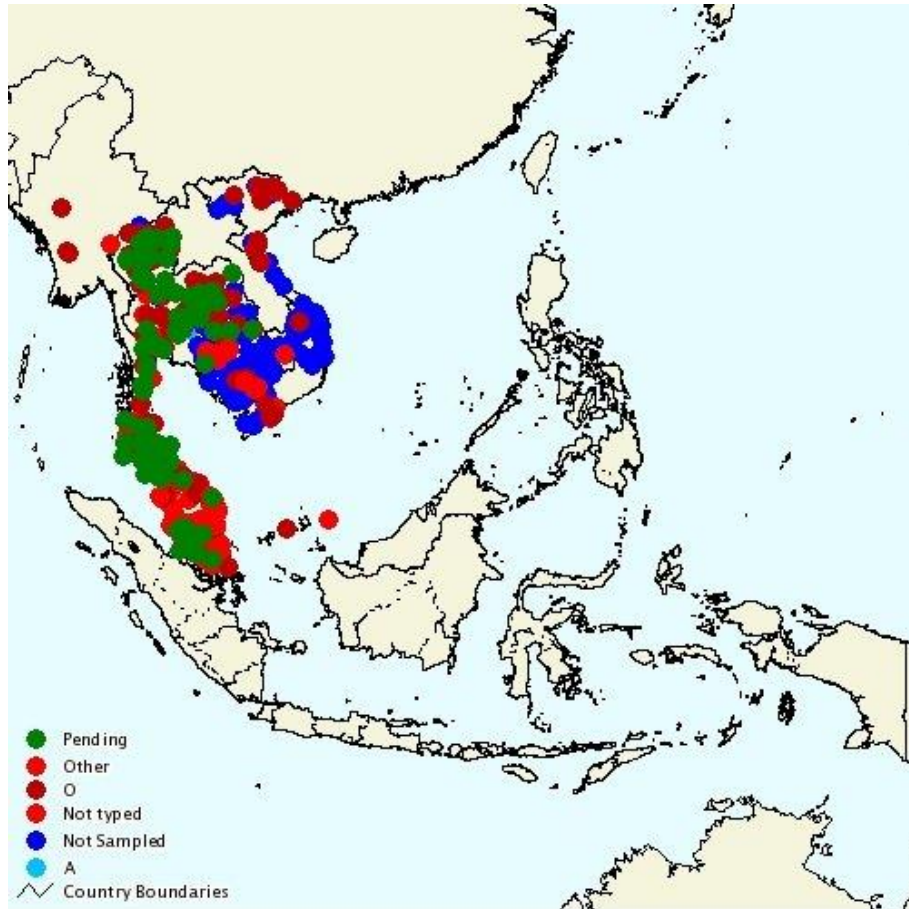
No. Outbreaks:	06 ( <i>type O detect only</i> )
No. Province:	06
Species affected (toal 131 animal)	Cattle: 131

Compare with 2021,

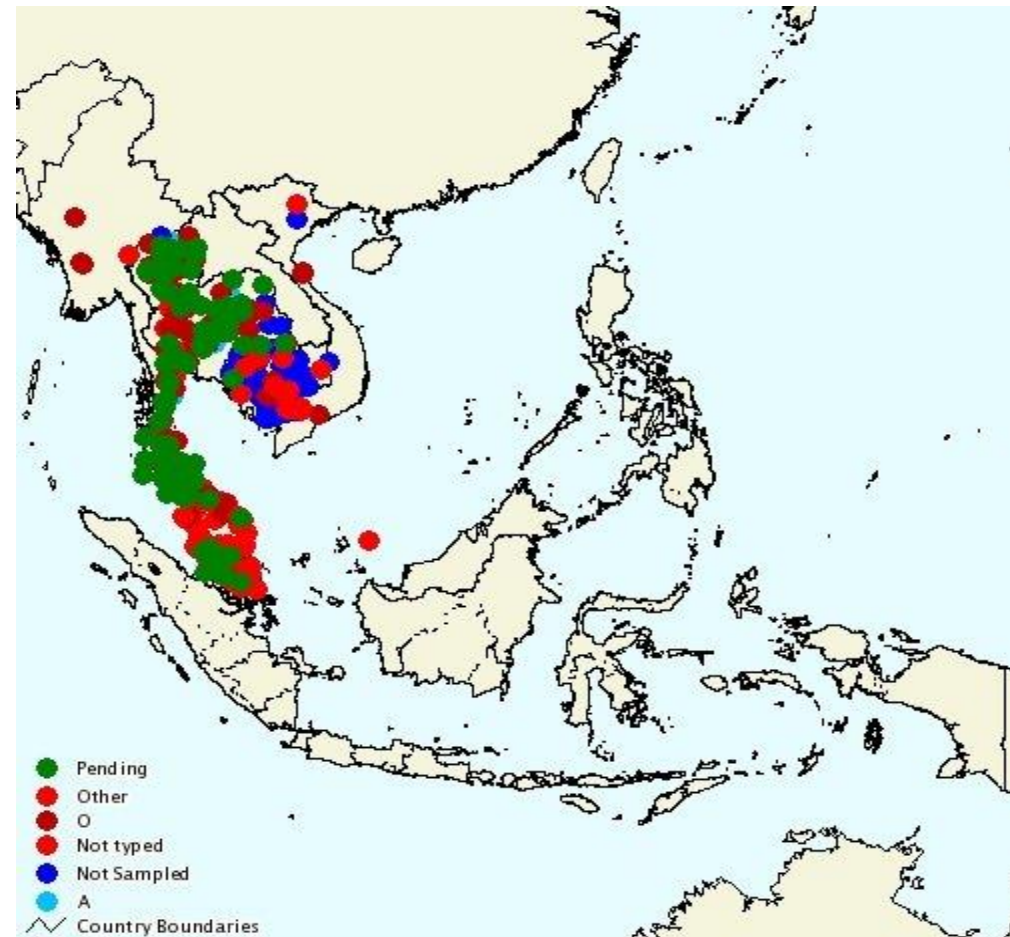
- the number of outbreaks lowdown by 14.3 times,
- the number of infected animals lowdown by 68.9 times

Vietnam enhances use high potency FMDV vaccine (>6PD50) on Cattle, pigs for livestock farms.

# MAP-FMD situation during 2021-2022



2021



2022

# FMD Prevention and Control – Highlights of FMD Control

## Key changes/ highlights in the implementation of FMD Prevention and Control activities from 2021 to 2022 (June)

- Implemented the "*National program for FMD prevention and control for the period 2021-2025*" approved by the Prime Minister (Decision No. 1632/QĐ-TTg dated October 22, 2020)
- **Current establishment of compartmentalizations and disease-free zones:**
  - 623 farms have been accredited with FMD diseases-free zones;
  - In those from 2021-2022 have 206 farms;
  - Free-zone of 06 districts to FMD;

And using online reporting platform (VAHIS)

# FMD Prevention and Control – Progress of the Campaign

- Progress of implementation of SEACFMD Roadmap 2021-2025 till date
  - **To prevent the introduction of FMDVs from outside into Vietnam;**
  - **Vaccination;**
  - **FMD monitoring and surveillance;**
  - **Establishment of FMD free farms and zones;**
  - **FMD diagnosis, testing and vaccine development;**
  - **Movement control;**
  - **Slaughtering management and veterinary hygiene inspection;**
  - **Outbreak response and containment;**

# FMD Prevention and Control – Planned activities

Key/ Main activities planned in 2023

- **Vaccine animals targeted:** To focus on vaccinating cattle, buffaloes, sows and boars. Priority will be placed on high antigen payload vaccines (> 6PD50) with 2 rounds a year.
- Provincial animal health to come up with a plan proposal, actively taking samples for FMD virus surveillance in order to forecast disease trend vaccine matching to generate evidences for recommendations on vaccine selection.
- Establishment of FMD free farms and zones: a) To review, and supplement the current regulations on disease free farms. Of which, to have a roadmap for breeding facilities to progressively become disease free facilities (with or without vaccination).



# Main challenges and recommended solution

- **High percentage of small-scale farms**
- **Control animal movement between provinces and across border**
- **Deal with infected animals**
- **Free grazing practice**
- **Vaccination programme: Vaccines supply and cost of vaccines**
- **Post vaccination monitoring**



Thank You